

VI - CLAIMING

What is claimed is :

- 1 – A quantitative method (quantifying by means of Biolumager or ELISA with colorimetric detection) for the measurement of specific mRNA utilizing the labeled nucleotide probes 1 and 2 (labeling with ^{32}P -dCTP and with biotin) directed at exons 7 and 8 respectively of the SMN gene for the molecular diagnosis of SMA.
- 2 – A quantitative method according to claim 1 may be used in the control of mRNA concentrations in the future gene therapy of patients with SMA.
- 3 – A quantitative method based on the measurement of specific mRNA for the construction of molecular diagnostic kits and for the control of mRNA concentrations in the future gene therapy for genetic disorders associated to a deletion or mutation of the gene(s) such as Duchene myopathies, mucoviscidose, or to a duplication of the gene such as Charcot-Marie-Tooth disease type 1A.

VII - REFERENCES

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